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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/524,863	09/28/2005	Tadayoshi Sato	SAT-45	2999
20311 7590 02/10/2009 LUCAS & MERCANTI, LLP 475 PARK AVENUE SOUTH 15TH FLOOR NEW YORK, NY 10016				
EXAMINER				
KURTZ, BENJAMIN M				
ART UNIT		PAPER NUMBER		
1797				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/524,863

Applicant(s)

SATO, TADAYOSHI

Examiner

BENJAMIN KURTZ

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 January 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 5-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 5-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 September 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-8508)
- Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claims 5-9 are pending, claims 1-4 are cancelled.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. **Claims 5, 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kelly US 1 164 527, Cantrell US 2003/0033670, and Lynch US 4 333 835.**

Claim 5, Kelly teaches a separation vessel communicating with an opening (B), a water storage vessel (H) forming a u-shaped passage as a whole together with the separation vessel, a draining means (K), and an open/close means (D3) provided at the side of the separation vessel (fig. 1). How the apparatus functions is a process limitation that does not add structural limitations to the claim. Kelly does not teach a basin having side walls and a bottom wall with an opening in the bottom wall, the separation vessel being underneath the basin, or the open/close means located at the predetermined water level.

Cantrell teaches a sink comprising: a basin (50) having side walls and a bottom wall with an opening in the bottom wall and a separation vessel (60) underneath the basin communicating with the basin via the opening (fig. 7). Placing a separation vessel underneath a basin is known in the art as taught by Cantrell. The claim would have been obvious because the substitution of one known element (grease trap of Kelly) for another (the grease trap of Cantrell) would have yielded predictable results to one of ordinary skill in the art at the time of the invention, *KSR International Co. v. Teleflex Inc.*, 82 USPQ2d 1385 (2007).

Lynch teaches a separation vessel (32), a water storage vessel (34) forming a u shaped passage as a whole together with the separation vessel and storing wastewater from the separation vessel up to a predetermined water level (104), a means (90) provided in a place located at the predetermined water level for recovering oil content (fig. 1). The particular location of the open/close means is a simple rearrangement of parts and is a known configuration taught in the prior art. Shifting the position of an element is unpatentable if shifting the position of the element would not modify the operation of the device, *In re Japikse*, 86 USPQ 70 (1950). Shifting the position of the open/close means of Kelly would not modify the operation of the device of Kelly as the open/close means would still be capable of drawing off the lighter oils. Also, the claim would have been obvious because the particular known technique of positioning the oil collector was recognized as part of the ordinary capabilities of one skilled in the art, *KSR International Co. v. Teleflex Inc.*, 82 USPQ2d 1385 (2007).

Regarding claim 7, Kelly further teaches the separation vessel and the water storage vessel are adjacent each other with a common partition member (F) forming the u-shaped passage, and the draining means (K) has a structure with an inlet formed at a position of the predetermined fluid level on a circumferential side wall of the water storage vessel and a pipe shaped member formed out so as to connect the inlet and outside of the water storage vessel (fig. 1).

Regarding claim 8, Kelly further teaches the separation vessel and the water storage vessel are adjacent each other with a common partition member (F) forming the u-shaped passage, and the draining means (K) has a structure with an inlet formed at a position of the predetermined fluid level within the water storage vessel and a pipe shaped member formed out so as to connect the inlet and outside of the water storage vessel (fig. 1).

2. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kelly '527, Cantrell '670, and Lynch '835 as applied to claim 5 above, and further in view of Maranville US 911 314.

Regarding claim 6, Kelly, Cantrell and Lynch teach the sink of claim 5 but do not teach a buffer vessel. Maranville teaches a sink comprising: a separation vessel (2), a water storage vessel (3) forming a u-shaped passage together with the separation vessel, a draining means (9), and a buffer vessel (formed by element (10)). It would have been obvious to one of ordinary skill in the art at the time the invention was made

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to use the buffer vessel as taught by Maranville because the buffer vessel maintains a constant head of water in the water storage vessel that is independent of the rate of flow through the outlet thereby preventing accidental escape of water through the oil discharge (pg. 2 lines 27-44).

None of Kelly, Cantrell, Lynch or Maranville teaches a buffer vessel formed between the separation vessel and the water storage vessel. Placing the buffer vessel between the separation vessel and water storage vessel is merely a rearrangement of the buffer vessel and the outlet that would not affect the operation of the apparatus and would have been obvious to one of ordinary skill in the art. Shifting the position of an element is unpatentable if shifting the position of the element would not modify the operation of the device, *In re Japikse*, 86 USPQ 70 (1950).

3. **Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kelly '527, Cantrell '670, and Lynch '835 as applied to claim 5 above, and further in view of Broughton US 4 396 508 or Hirshstein US 2 284 737.**

Kelly, Cantrell and Lynch teach the sink of claim 5 but do not teach a second open-close means provided in a side of the separation vessel. Broughton and Hirshstein both teach oil-water separators having open/close means (Broughton (28) fig. 1, Hirshstein (29) fig. 1) provided in the side of the vessel for depleting sedimentary garbage in the vessel at a position below a predetermined water level. The claim would have been obvious because the technique for improving a particular class of devices

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was part of the ordinary capabilities of a person of ordinary skill in the art, in view of the teaching of the technique for improvement in other situations, KSR International Co. v. Teleflex Inc., 82 USPQ2d 1385 (2007).

Response to Arguments

4. Applicant's arguments with respect to claim 5 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BENJAMIN KURTZ whose telephone number is (571)272-8211. The examiner can normally be reached on Monday through Friday 8:00am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Sample can be reached on 571-272-1376. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Benjamin Kurtz
Examiner
Art Unit 1797

/B. K./
Examiner, Art Unit 1797

/Krishnan S Menon/
Primary Examiner, Art Unit 1797